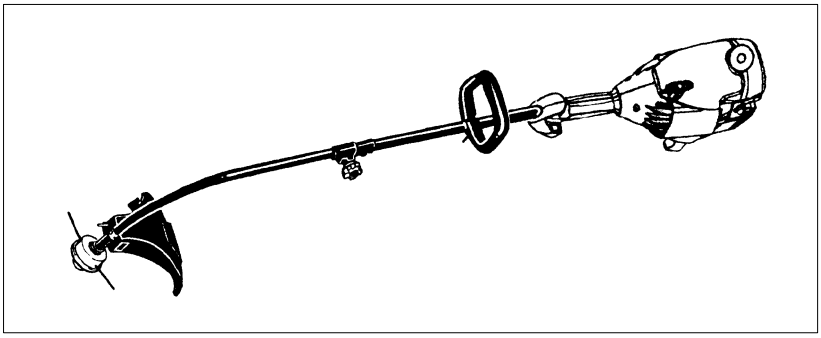
McCULLOCH

Electrolux

TrimMac 280



GB

INSTRUCTION MANUAL
IMPORTANT INFORMATION: Please read these instructions carefully and make sure you understand them before using this unit. Retain these instructions for future reference.

FR

MANUEL D'INSTRUCTIONS
RENSEIGNEMENTS IMPORTANTS: Avant d'utiliser cet appareil, veuillez lire atentivement les instructions et assurez-vous de les avoir comprises. Conservez les instructions pour référence ultérieure.

DE

BETRIEBSANWEISUNG
WICHTIGE INFORMATION: Lesen Sie diese Hinweise zur Handhabung des Geräts aufmerksam durch. Verwenden Sie es erst, wenn Sie sicher sind, daß Sie alle Anweisungen verstanden haben und gut aufbewahren.

ES

MANUAL DE INSTRUCCIONES
INFORMACIÓN IMPORTANTE: Lea atentamente las instrucciones y asegúrese de entenderlas antes de utilizar esta aparato. Conserve las instrucciones para la referencia en el futuro.

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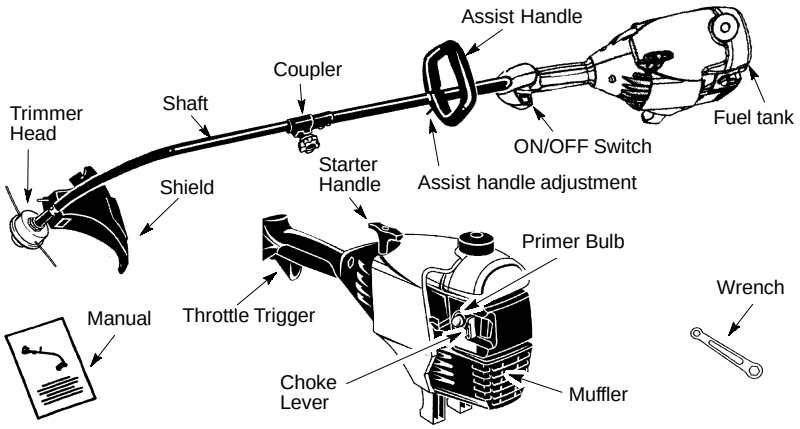
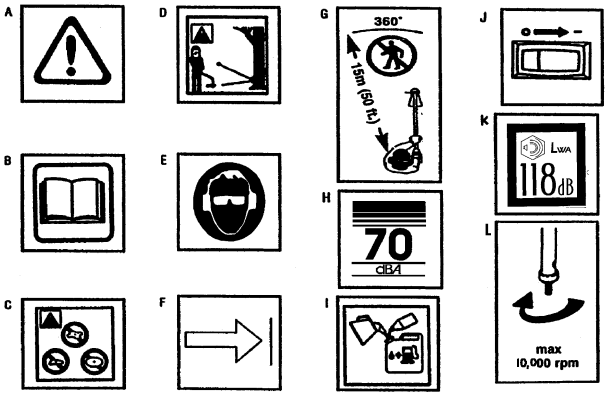
IDENTIFICATION (WHAT IS WHAT?)



IDENTIFICATION OF SYMBOLS



A. **WARNING!** This trimmer can be dangerous! Careless or improper use can cause serious or even fatal injury.
B. Read and understand the instruction manual before using the trimmer.
C. Never use blades with this tool.
D. **WARNING!** The trimmer line can throw objects violently. You can be blinded or injured. Always wear eye protection.
E. Always use:
Ear protection
Protective glasses or visor
F. Assist handle to be positioned only below the arrow.
G. The operator of the machine must insure that no one comes within a 15 meter radius while working. When several operators are working within the same area a safety distance of at least 15 meters must be observed.
H. Sound pressure level at 7,5 meters
I. Use unleaded or quality leaded petrol and two-stroke oil mixed at a ratio of 2.5%.
J. Engine ON/OFF switch
K. Sound power level
L. Max speed of output axle, rpm

SAFETY RULES

WARNING: When using gardening appliances, basic safety precautions should always be followed to reduce the risk of fire and serious injury. Read and follow all instructions. *This power unit can be dangerous!* Operator is responsible for following instructions and warnings on unit and in manual. Read entire instruction manual before using unit! Be thoroughly familiar with the controls and the proper use of the unit. Restrict the use of this unit to persons who read, understand, and follow instructions and warnings on unit and in manual. Never allow children to operate this unit.

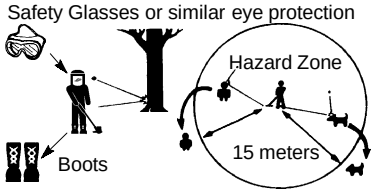
INSTRUCTION MANUAL

SAFETY INFORMATION ON THE UNIT

DANGER: Never use blades with line trimmer attachment. Never use flailing devices with any attachment. This unit (when used with supplied line trimmer attachment) is designed for line trimmer use only. Use of any other accessories with line trimmer attachment will increase the risk of injury.

WARNING: Trimmer line throws objects violently. You and others can be blinded/injured. Wear safety glasses and leg protection. Keep body parts clear of rotating line.

Safety Glasses or similar eye protection



Keep children, bystanders, and animals 15 meters away. If approached stop unit immediately.

If situations occur which are not covered in this manual, use care and good judgement. If you need assistance, contact your authorized service dealer.

OPERATOR SAFETY

- Dress properly. Always wear safety glasses or similar eye protection when operating, or performing maintenance, on your unit (safety glasses are available). Eye protection should be marked Z87.
- Always wear face or dust mask if operation is dusty.
- Always wear heavy, long pants, long sleeves, boots, and gloves. Wearing safety leg guards is recommended.
- Always wear foot protection. Do not go barefoot or wear sandals. Stay clear of spinning line.
- Secure hair above shoulder length. Secure or remove loose clothing or clothing with loosely hanging ties, straps, tassels, etc. They can be caught in moving parts.
- Being fully covered also helps protect you from debris and pieces of toxic plants thrown by spinning line.
- Stay Alert. Do not operate this unit when you are tired, ill, upset or under the influence of alcohol, drugs, or medication. Watch what you are doing; use common sense.
- Wear hearing protection.
- Never start or run inside a closed room or building. Breathing exhaust fumes can kill.
- Keep handles free of oil and fuel.
- Always keep engine on the right hand side of your body.
- Hold the unit firmly with both hands.
- Keep trimmer head (or other optional attachment) below waist level and away from all parts of your body. Do not raise engine above your waist.
- Keep all parts of your body away from muffler and spinning line (or other optional attachment). Keep engine below waist level. A hot muffler can cause serious burns.
- Keep firm footing and balance. Do not overreach or use from unstable surfaces such as ladders, trees, steep slopes, rooftops, etc.
- Use only in daylight or good artificial light.
- Use only for jobs explained in this manual (or manuals for optional attachments).

UNIT / MAINTENANCE SAFETY

- Disconnect the spark plug before performing maintenance except carburetor adjustments.
- Look for and replace damaged or loose parts before each use. Look for and repair fuel leaks before use. Keep in good working condition.
- Replace trimmer head parts that are chipped, cracked, broken, or damaged in any other way before using the unit.
- Maintain unit according to recommended procedures. Keep cutting line at proper length.
- Use only 2 mm diameter McCulloch® brand line. Never use wire, rope, string, etc.
- Install required shield properly before using the unit. Use only specified trimmer head; make sure it is properly installed and securely fastened.
- Make sure unit is assembled correctly as shown in this manual.
- Make carburetor adjustments with lower end supported to prevent line from contacting any object.

- Keep others away when making carburetor adjustments.
- Use only recommended McCulloch® accessories and replacement parts.
- Have all maintenance and service not explained in this manual performed by an authorized service dealer.

FUEL SAFETY

- Mix and pour fuel outdoors.
- Keep away from sparks or flames.
- Use a container approved for fuel.
- Do not smoke or allow smoking near fuel or the unit.
- Avoid spilling fuel or oil. Wipe up all fuel spills.
- Move at least 3 meters away from fueling site before starting engine.
- Stop engine and allow to cool before removing fuel cap.
- Always store gasoline in a container approved for flammable liquids.

TRANSPORTING AND STORAGE

- Allow the engine to cool; secure unit before storing or transporting in vehicle.
- Empty fuel tank before storing or transporting the unit. Use up fuel left in the carburetor by starting engine and letting it run until it stops.
- Store unit and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
- Store unit so line limiter cannot accidentally cause injury. Unit can be hung by the shaft.
- Store the unit out of the reach of children.

SPECIAL NOTICE: Exposure to vibrations through prolonged use of gasoline powered hand tools could cause blood vessel or nerve damage in the fingers, hands, and joints of people prone to circulation disorders or abnormal swellings. Prolonged use in cold weather has been linked to blood vessel damage in otherwise healthy people. If symptoms occur such as numbness, pain, loss of strength, change in skin color or texture, or loss of feeling in the fingers, hands, or joints, discontinue the use of this tool and seek medical attention. An anti-vibration system does not guarantee the avoidance of these problems. Users who operate power tools on a continual and regular basis must monitor closely their physical condition and the condition of this tool.

LINE TRIMMER SAFETY

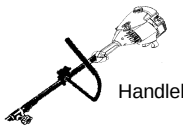
WARNING: Inspect the area to be trimmed before each use. Remove objects (rocks, broken glass, nails, wire, etc.) which can be thrown by or become entangled in line. Hard objects can damage the trimmer head and be thrown causing serious injury.

- Use only for trimming, scalping, mowing and sweeping. Do not use for edging, pruning or hedge trimming.
- Cut from your right to your left. Cutting on left side of the shield will throw debris away from the operator.

ADDITIONAL SAFETY RULES FOR OPTIONAL ATTACHMENTS

WARNING: For each optional attachment used, read entire instruction manual before use and follow all warnings and instructions in manual and on attachment.

WARNING: Ensure handlebar is installed when using edger or brushcutter attachments. Attach handlebar above arrow on safety label on the upper shaft (engine end of unit). If your edger or brushcutter attachment does not include a handlebar, a handlebar accessory kit (#530071451) is available from your authorized service dealer.

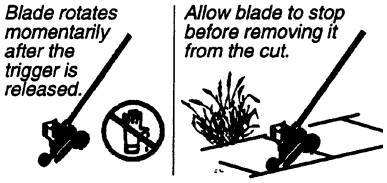


Handlebar

EDGER SAFETY

WARNING: Inspect the area to be edged before each use. Remove objects (rocks, broken glass, nails, wire, etc.) which can be thrown by the blade or can wrap around the shaft.

- Blade rotates momentarily after the trigger is released. The blade can seriously cut you or others.
- Allow blade to stop before removing it from the cut.



- Throw away blades that are bent, warped, cracked, broken or damaged in any other way. Replace parts that are cracked, chipped, or damaged before using the unit.
- Do not attempt to remove cut material nor hold material to be cut when the engine is running or when cutting blade is moving.
- Always keep the wheel and depth adjusting skid in contact with the ground.
- Always push the unit slowly over the ground. Stay alert for uneven sidewalks, holes in the terrain, large roots, etc.
- Always use the handlebar when using edger attachment.

BLOWER/VACUUM SAFETY

WARNING: Inspect area before starting unit. Remove all debris and hard objects such as rocks, glass, wire, etc. that can ricochet, be thrown, or otherwise cause injury or damage during operation.

- Do not set unit on any surface except a clean, hard area while engine is running. Debris such as gravel, sand, dust, grass, etc., could be picked up by the air intake and thrown out through discharge opening, damaging unit, property, or causing serious injury to bystanders or operator.
- Never place objects inside the blower tubes, vacuum tubes or blower outlet. Always direct the blowing debris away from people, animals, glass, and solid objects such as trees, automobiles, walls, etc. The force of air can cause rocks, dirt, or sticks to be thrown or to ricochet which can hurt people or animals, break glass, or cause other damage.
- Never run unit without the proper equipment attached. When using your unit as a blower, always install blower tubes.
- Check air intake opening, blower tubes or vacuum tubes frequently, always with engine stopped and spark plug disconnected. Keep vents and discharge tubes free of debris which can accumulate and restrict proper air flow.
- Never place any object in air intake opening as this could restrict proper air flow and cause damage to the unit.
- Never use for spreading chemicals, fertilizers, or other substances which may contain toxic materials.
- To avoid spreading fire, do not use near leaf or brush fires, fireplaces, barbecue pits, ashtrays, etc.

BRUSHCUTTER SAFETY

DANGER: Blade can thrust violently away from material it does not cut. Blade thrust can cause amputation of arms or legs.

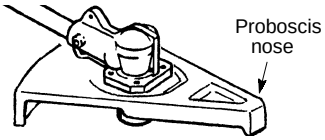
WARNING: Do not use trimmer head as a fastening device for the blade.

WARNING: The blade continues to spin after the throttle is released or engine is turned off. The coasting blade can throw objects or seriously cut you if accidentally touched. Stop the blade by contacting the right hand side of the coasting blade with material already cut.

WARNING: Inspect the area to be cut before each use. Remove objects (rocks, broken glass, nails, wire, etc.) which can be thrown or become entangled in the blade or trimmer line.

- Throw away and replace blades that are bent, warped, cracked, broken or damaged in any other way.
- Install required shield properly before using the unit. Use the metal shield for all metal blade use.

WARNING: Only use brushcutter attachments that provide a metal shield with proboscis nose.



- Use only specified blade and make sure it is properly installed and securely fastened.
- Cut from your left to your right. Cutting on the right side of the shield will throw debris away from the operator.
- Always use the handlebar and a properly adjusted shoulder strap with blade (see ASSEMBLY instructions in brushcutter attachment instruction manual).

CULTIVATOR SAFETY

WARNING: Rotating tines can cause serious injury. Keep away from rotating tines. Stop the engine and disconnect the spark plug before unclogging tines or making repairs.

WARNING: Inspect the area to be cultivated before starting the unit. Remove all debris and hard and sharp objects such as rocks, vines, branches, rope, string, etc.

- Avoid heavy contact with solid objects that might stop the tines. If heavy contact occurs, stop the engine and inspect the unit for damage.
- Never operate the cultivator without the tine cover in place and properly secured.
- Keep the tines and guard clear of debris.
- After striking a foreign object, stop the engine, disconnect the spark plug and inspect the cultivator for damage. Repair before restarting.
- Disconnect attachment from the drive engine before cleaning the tines with a hose and water to remove any build-up. Oil the tines to prevent rust.
- Always wear gloves when servicing or cleaning the tines. The tines become very sharp from use.
- Do not run unit at high speed unless cultivating.

HEDGE TRIMMER SAFETY

DANGER: RISK OF CUT; KEEP HANDS AWAY FROM BLADE - Blade moves momentarily after the trigger is released. Do not attempt to clear away cut material when the blade is in motion. Make sure the switch is in the OFF position, the spark plug wire is disconnected, and the blade has stopped moving before removing jammed material from the cutting blade. Do not grab or hold the unit by the cutting blade.

Blades move momentarily after the trigger is released.

Allow blades to stop before removing them from the cut.

WARNING: Inspect the area before starting the unit. Remove all debris and hard objects such as rocks, glass, wire, etc. that can ricochet, be thrown, or otherwise cause injury or damage during operation.

- Do not use a cutting blade that is bent, warped, cracked, broken or damaged in any other way. Have worn or damaged parts replaced by your authorized service dealer.
- Always keep unit in front of your body. Keep all parts of your body away from the cutting blade.
- Keep the cutting blade and air vents clear of debris.

POLE PRUNER SAFETY

WARNING: The reciprocating blade/rotating chain can cause severe injury. Inspect the unit before use. Do not operate unit with a bent, cracked or dull blade or dull chain. Keep away from the blade/chain. The reciprocating blade/rotating chain is sharp. Do not touch. To prevent serious injury, always stop engine and ensure blade/chain has stopped moving, disconnect spark plug, and wear gloves when changing or handling the blade or chain.

WARNING: A coasting blade/rotating chain can cause injury while it continues to move after the engine is stopped. Maintain proper control of the unit until the blade/chain has completely stopped moving. Keep hands, face and feet at a distance from all moving parts. Do not attempt to touch or stop the blade or chain when it is moving.

WARNING: Falling objects can cause severe head injury. Wear head protection when operating this unit with a pole pruner attachment.

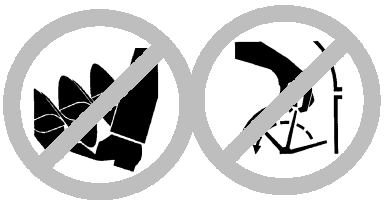
WARNING: To prevent serious injury, do not use more than one boom extension with a pole pruner attachment.

WARNING: Keep the pruner away from power lines or electrical wires.

- Only use for pruning limbs or branches up to 4 inches in diameter.
- Do not operate the unit faster than the speed needed to prune. Do not run the unit at high speed when not pruning.
- Always stop the unit when work is delayed or when walking from one cutting location to another.
- If you strike or become entangled with a foreign object, stop the engine immediately and check for damage. Have any damage repaired by an authorized service dealer before attempting further operations. Discard blades that are bent, warped, cracked or broken.
- Stop the unit immediately if you feel excessive vibration. Vibration is a sign of trouble. Inspect thoroughly for loose nuts, bolts or damage before continuing. Contact an authorized service dealer for repair or replacement of affected parts as necessary.

SNOW THROWER SAFETY

WARNING: Keep hands and feet away from the rotor when starting or running the engine. Never attempt to clear the rotor with the engine/motor running. Stop engine and disconnect spark plug before unclogging snow or debris from discharge chute or when adjusting vanes.



WARNING: Never lean over discharge chute. Rocks or debris could be thrown into the eyes and face and cause serious injury or blindness.

WARNING: Inspect the area where the unit is to be used. Remove objects that could be thrown or damage the unit. Some objects may be hidden by fallen snow - be alert for the possibility.

- Direct material discharge away from glass enclosures, automobiles, etc.
- Do not run engine at high speed while not removing snow.
- Be attentive when using the snowthrower, and stay alert for holes in the terrain and other hidden hazards.
- Make sure the rotor will spin freely before attaching the snowthrower to the powerhead.
- If the rotor will not rotate freely due to frozen ice, thaw the unit before thoroughly before attempting to operate under power.
- Keep the rotor clear of debris.
- Do not throw snow near other people. The snow thrower could propel small objects at high speed causing injury.
- After striking a foreign object, stop the engine, disconnect spark plug and inspect the snowthrower for damage and repair if necessary before restarting unit.
- Never operate the snowthrower near glass enclosures, automobiles and trucks.Never attempt to use the snowthrower on a roof.
- Never operate the snowthrower near window wells, dropoffs, etc.
- Never discharge snow onto public roads or near moving traffic.
- Clear snow from slopes by going up and down; never across. Use caution when changing directions. Never clear snow from steep slopes.
- Let snowthrower run for a few minutes after clearing snow so moving parts do not freeze.
- Look behind and use care when backing up. Exercise caution to avoid slipping or falling, especially when operating in reverse.
- Know how to stop quickly.

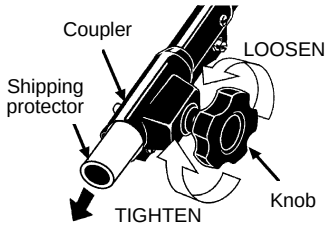
ASSEMBLY

WARNING: If received assembled, repeat all steps to ensure your unit is properly assembled and all fasteners are secure.
Examine parts for damage. Do not use damaged parts.
It is normal for the fuel filter to rattle in the empty fuel tank.
Finding fuel or oil residue on muffler is normal due to carburetor adjustments and testing done by the manufacturer.

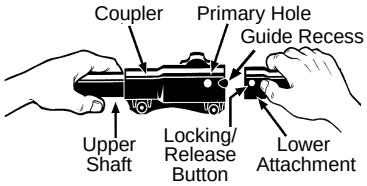
INSTALLING TRIMMER ATTACHMENT

CAUTION: When installing trimmer attachment, place the unit on a flat surface for stability.

1. Loosen the coupler by turning the knob counterclockwise.



2. Remove shipping protector from coupler.
3. Remove the shaft cap from the trimmer attachment (if present).
4. Position locking/release button of attachment into guide recess of coupler.
5. Push the attachment into the coupler until the locking/release button snaps into the primary hole.
6. Before using the unit, tighten the knob securely by turning clockwise.



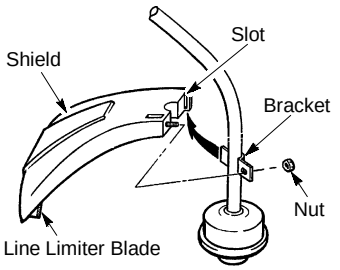
WARNING: Make sure the locking/release button is locked in the primary hole and the knob is securely tightened before operating the unit. All attachments are designed to be used in the primary hole.

For optional attachments, see the ASSEMBLY section of the applicable attachment instruction manual.

ATTACHING THE SHIELD

WARNING: The shield must be properly installed. The shield provides partial protection from the risk of thrown objects to the operator and others and is equipped with a line limiter which cuts excess line. The line limiter (on underside of shield) is sharp and can cut you.

1. Remove nut from shield.
2. Insert bracket into slot on shield.
3. Pivot shield until bolt passes through hole in bracket.
4. Reinstall nut and tighten securely with wrench (provided).



ADJUSTING THE HANDLE

WARNING: When adjusting the handle, be sure it remains between the trigger and the safety label. Assist handle must be positioned only below the arrow.

1. Loosen wing nut on handle.
2. Rotate the handle on the shaft to an upright position; retighten wing nut.

OPERATION

WARNING: Be sure to read the fuel information in the safety rules before you begin. If you do not understand the safety rules, do not attempt to fuel your unit. Contact an authorized service dealer.

FUELING ENGINE

WARNING: Remove fuel cap slowly when refueling.

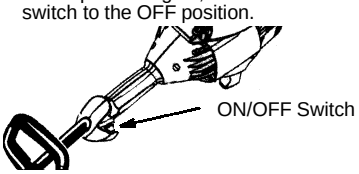
This engine is certified to operate on unleaded gasoline. Before operation, gasoline must be mixed with a good quality 2-cycle air-cooled engine oil. We recommend McCulloch® brand oil mixed at a ratio of 40:1 (2.5%). A 40:1 ratio is obtained by mixing 5 liters of unleaded gasoline with 0,125 liter of oil. DO NOT USE automotive oil or boat oil. These oils will cause engine damage. When mixing fuel, follow instructions printed on oil container. Once oil is added to gasoline, shake container momentarily to assure that the fuel is thoroughly mixed. Always read and follow the safety rules relating to fuel before fueling your unit.

IMPORTANT

Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, empty the fuel system before storage for 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

HOW TO STOP YOUR UNIT

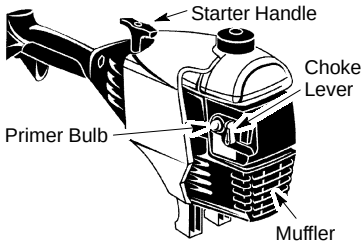
- To stop the engine, move the ON/OFF switch to the OFF position.



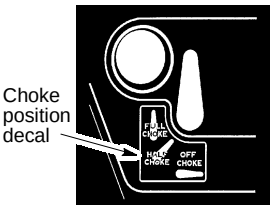
HOW TO START YOUR UNIT

WARNING: Avoid any contact with the muffler. A hot muffler can cause serious burns.

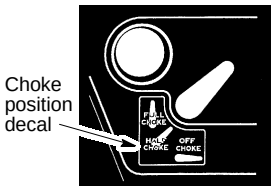
STARTING A COLD ENGINE (or a warm engine after running out of fuel)



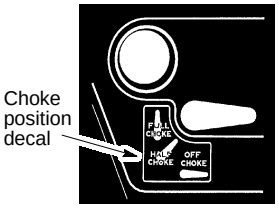
1. Set unit on a flat surface.
2. Move ON/OFF switch to the ON position.
3. Slowly press the primer bulb 6 times.
4. Move choke lever to FULL CHOKE position by aligning lever with position shown on decal (see illustration below).



5. Squeeze and hold trigger through *all remaining steps*.
6. Pull starter rope handle sharply until engine sounds as if it is trying to start, but do not pull rope more than 6 times.
7. As soon as engine sounds as if it is trying to start, move choke lever to HALF CHOKE by aligning lever with position shown on decal (see illustration below).



8. Pull starter rope sharply until engine runs, but no more than 6 pulls. If the engine doesn't start after 6 pulls (at the HALF CHOKE position), move the choke lever to the FULL CHOKE position and press the primer bulb 6 times. Squeeze and hold the throttle trigger and pull the starter rope 2 more times. Move the choke lever to the HALF CHOKE position and pull the starter rope until the engine runs, but no more than 6 pulls.
   NOTE: If engine still doesn't start, it is probably flooded. Proceed to STARTING A FLOODED ENGINE.
9. Once the engine starts, allow it to run 10 seconds, then move the choke lever to OFF CHOKE by aligning lever with position shown on decal (see following illustration). Allow the unit to run for 30 more seconds at OFF CHOKE before releasing the throttle trigger.
   NOTE: If engine dies with the choke lever in the OFF CHOKE position, move the choke lever to the HALF CHOKE position and pull the rope until engine runs, but no more than 6 pulls.



STARTING A WARM ENGINE

1. Move ON/OFF switch to the ON position.
2. Move the choke lever to the HALF CHOKE position.
3. Squeeze and hold the throttle trigger. Keep throttle trigger fully squeezed until the engine runs smoothly.
4. Pull starter rope sharply until engine runs, but no more than 5 pulls.
5. Allow engine to run 15 seconds, then move the choke lever to the OFF CHOKE position.

NOTE: If engine has not started, pull starter rope 5 more pulls. If engine still does not run, it is probably flooded.

STARTING A FLOODED ENGINE

Flooded engines can be started by placing the choke lever in the OFF CHOKE position; then, pull the rope to clear the engine of excess fuel. This could require pulling the starter handle many times depending on how badly the unit is flooded.
If the unit still doesn't start, refer to TROUBLESHOOTING TABLE.

OPERATING THE COUPLER

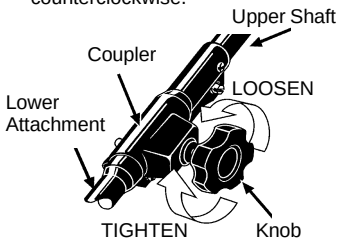
This model is equipped with a coupler which enables optional attachments to be installed.

WARNING: Always stop unit and disconnect spark plug before removing or installing attachments.

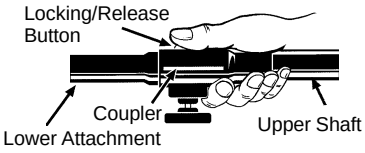
REMOVING TRIMMER ATTACHMENT (OR OTHER OPTIONAL ATTACHMENTS)

CAUTION: When removing or installing attachments, place the unit on a flat surface for stability.

1. Loosen the coupler by turning the knob counterclockwise.



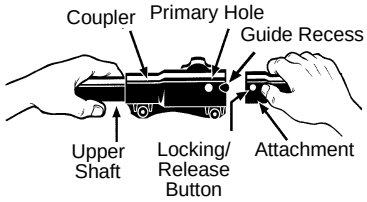
2. Press and hold the locking/release button.



3. While securely holding the engine and upper shaft, pull the attachment straight out of the coupler.

INSTALLING OPTIONAL ATTACHMENTS

1. Remove the shaft cap from the attachment (if present).
2. Position locking/release button of attachment into guide recess of coupler.
3. Push the attachment into the coupler until the locking/release button snaps into the primary hole.
4. Before using the unit, tighten the knob securely by turning clockwise.



WARNING: Make sure the locking/release button is locked in the primary hole and the knob is securely tightened before operating the unit.

OPERATING POSITION

Cut from your right to your left.

WARNING: Always wear eye protection and hearing protection. Never lean over the trimmer head. Rocks or debris can ricochet or be thrown into eyes and face and cause blindness or other serious injury.

Do not run the engine at a higher speed than necessary. The cutting line will cut efficiently when the engine is run at less than full throttle. At lower speeds, there is less engine noise and vibration. The cutting line will last longer and will be less likely to "weld" onto the spool.

Always release the throttle trigger and allow the engine to return to idle speed when not cutting.

To stop engine:

- Release the throttle trigger.
- Move the ON/OFF switch to the OFF position.

TRIMMER LINE ADVANCE

The trimmer line will advance approximately 2 in. (5 cm) each time the bottom of the trimmer head is tapped on the ground with the engine running at full throttle.

The most efficient line length is the maximum length allowed by the line limiter.

Always keep the shield in place when the tool is being operated.

To advance line:

- Operate the engine at full throttle.
- Hold the trimmer head parallel to and above the grassy area.
- Tap the bottom of the trimmer head lightly on the ground one time. Approximately 5 cm of line will be advanced with each tap.

Always tap the trimmer head on a grassy area. Tapping on surfaces such as concrete or asphalt can cause excessive wear to the trimmer head.

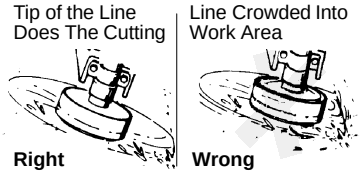
If the line is worn down to 5 cm or less, more than one tap will be required to obtain the most efficient line length.

WARNING: Use only 2 mm diameter line. Other sizes and shapes of line will not advance properly and will result in improper cutting head function or can cause serious injury. Do not use other materials such as wire, string, rope, etc. Wire can break off during cutting and become a dangerous missile that can cause serious injury.

CUTTING METHODS

WARNING: Use minimum speed and do not crowd the line when cutting around hard objects (rock, gravel, fence posts, etc.), which can damage the trimmer head, become entangled in the line, or be thrown causing a serious hazard.

- The tip of the line does the cutting. You will achieve the best performance and minimum line wear by not crowding the line into the cutting area. The right and wrong ways are shown below.



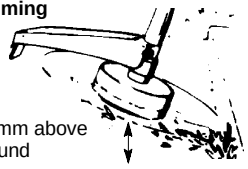
- The line will easily remove grass and weeds from around walls, fences, trees and flower beds, but it also can cut the tender bark of trees or shrubs and scar fences.
- For trimming or scalping, use less than full throttle to increase line life and decrease head wear, especially:

- During light duty cutting.
- Near objects around which the line can wrap such as small posts, trees or fence wire.

- For mowing or sweeping, use full throttle for a good clean job.

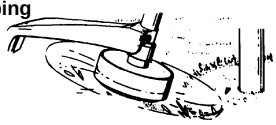
TRIMMING – Hold the bottom of the trimmer head about 80 mm above the ground and at an angle. Allow only the tip of the line to make contact. Do not force trimmer line into work area.

Trimming



SCALPING – The scalping technique removes unwanted vegetation. Hold the bottom of the trimmer head about 80 mm above the ground and at an angle. Allow the tip of the line to strike the ground around trees, posts, monuments, etc. This technique increases line wear.

Scalping

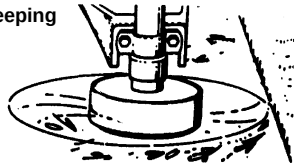


MOWING – Your trimmer is ideal for mowing in places conventional lawn mowers cannot reach. In the mowing position, keep the line parallel to the ground. Avoid pressing the head into the ground as this can scalp the ground and damage the tool.

Mowing

SWEEPING – The fanning action of the rotating line can be used for a quick and easy clean up. Keep the line parallel to and above the surfaces being swept and move the tool from side to side.

Sweeping



MAINTENANCE

WARNING: Disconnect the spark plug before performing maintenance except for carburetor adjustments.

CHECK FOR LOOSE FASTENERS AND PARTS

- Spark Plug Boot
- Air Filter
- Housing Screws
- Assist Handle Screw
- Debris Shield

CHECK FOR DAMAGED OR WORN PARTS

Contact an authorized service dealer for replacement of damaged or worn parts.

- ON/OFF Switch – Ensure ON/OFF switch functions properly by moving the switch to the OFF position. Make sure engine stops; then restart engine and continue.
- Fuel Tank – Discontinue use of unit if fuel tank shows signs of damage or leaks.
- Debris Shield – Discontinue use of unit if debris shield is damaged.

INSPECT AND CLEAN UNIT AND LABELS

- After each use, inspect complete unit for loose or damaged parts. Clean the unit and labels using a damp cloth with a mild detergent.
- Wipe off unit with a clean dry cloth.

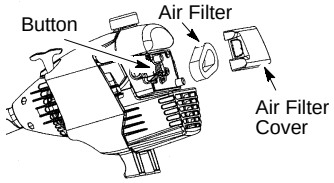
CLEAN AIR FILTER

A dirty air filter decreases engine performance and increases fuel consumption and harmful emissions. Always clean after every 5 hours of operation.

1. Clean the cover and the area around it to keep dirt from falling into the carburetor chamber when the cover is removed.
2. Remove parts as illustrated.

NOTE: Do not clean filter in gasoline or other flammable solvent to avoid creating a fire hazard or producing harmful evaporative emissions.

3. Wash the filter in soap and water.
4. Allow filter to dry.
5. Replace parts.



REPLACE SPARK PLUG

Replace the spark plug each year to ensure the engine starts easier and runs better. Set spark plug gap at 0,6 mm. Ignition timing is fixed and nonadjustable.

1. Twist, then pull off spark plug boot.
2. Remove spark plug from cylinder and discard.
3. Replace with Champion RCJ-6Y spark plug and tighten securely with a 19 mm socket wrench.
4. Reinstall the spark plug boot.

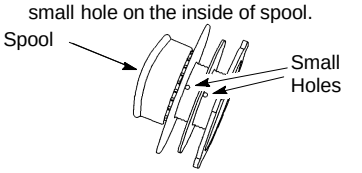
SERVICE AND ADJUSTMENTS

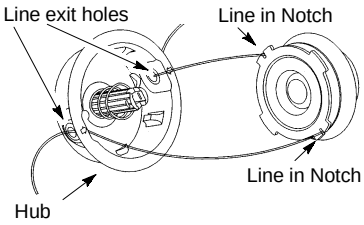
REPLACING THE LINE

1. Move the ON/OFF switch to the OFF position.
2. Disconnect the spark plug lead wire.
3. Remove spool by firmly pulling on tap button. Clean entire surface of hub and spool. Replace with a pre-wound spool, or cut two lengths of 4 meters of 2 mm diameter McCulloch® brand line.

WARNING: Never use wire, rope, string, etc., which can break off and become a dangerous missile.

4. Insert ends of the line about 1 cm into the small hole on the inside of spool.





5. Wind the line evenly and tightly onto the spool. Wind in the direction of the arrows found on the spool.
6. Push the line into the notches, leaving 7 – 12 cm unwound.
7. Insert the line into the the exit holes in the hub as shown in the illustration.
8. Align the notches with the line exit holes.
9. Push spool into hub until it snaps into place.
10. Pull the lines extending outside of the hub to release them from the notches.

CARBURETOR ADJUSTMENT

WARNING: Keep others away when making idle speed adjustments. The trimmer head will be spinning during most of this procedure. Wear your protective equipment and observe all safety precautions. After making adjustments, the trimmer head must not move/spin at idle speed.

The carburetor has been carefully set at the factory. Adjustments may be necessary if you notice any of the following conditions:

- Engine will not idle when the throttle is released.
- The trimmer head moves/spins at idle speed.

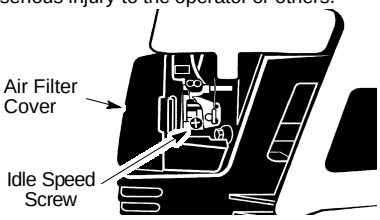
Make adjustments with the unit supported so the cutting attachment is off the ground and will not make contact with any object. Hold the unit by hand while running and making adjustments. Keep all parts of your body away from the cutting attachment and muffler.

Idle Speed Adjustment

Allow engine to idle. Adjust speed until engine runs without trimmer head moving or spinning (idle speed too fast) or engine stalling (idle speed too slow).

- Turn idle speed screw clockwise to increase engine speed if engine stalls or dies.
- Turn idle speed screw counterclockwise to decrease engine speed if trimmer head moves or spins at idle speed.

WARNING: Recheck the idle speed after each adjustment. The trimmer head must not move or spin at idle speed to avoid serious injury to the operator or others.



If you require further assistance or are unsure about performing this procedure, contact an authorized service dealer.

STORAGE

WARNING: Perform the following steps after each use:

- Allow engine to cool before storing or transporting.
- Store unit and fuel in a well ventilated area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
- Empty fuel tank before storing or transporting the unit.
- Store unit and fuel well out of the reach of children.
- Store unit with all guards in place. Position unit so that any sharp object cannot accidentally cause injury.

SEASONAL STORAGE

Prepare unit for storage at end of season or if it will not be used for 30 days or more.

If your unit is to be stored for a period of time:

- Clean the entire unit before lengthy storage.
- Store in a clean dry area.
- Lightly oil external metal surfaces.

ENGINE

- Remove spark plug and pour 1 teaspoon of 40:1, 2-cycle engine oil (air cooled) through the spark plug opening. Slowly pull the starter rope 8 to 10 times to distribute oil.
- Replace spark plug with new one of recommended type and heat range.
- Clean air filter.
- Check entire unit for loose screws, nuts, and bolts. Replace any damaged, broken, or worn parts.
- At the beginning of the next season, use only fresh fuel having the proper gasoline to oil ratio.

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if it starts to rust.

TROUBLESHOOTING TABLE

WARNING: Always stop unit and disconnect spark plug before performing all of the recommended remedies below except remedies that require operation of the unit.

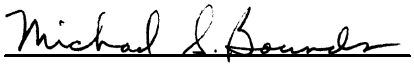
TROUBLE	CAUSE	REMEDY
Engine will not start.	1. ON/OFF switch in OFF position. 2. Engine flooded. 3. Fuel tank empty. 4. Spark plug not firing. 5. Fuel not reaching carburetor. 6. Carburetor requires adjustment.	1. Move ON/OFF switch to ON position. 2. See “Starting a Flooded Engine” in Operation Section. 3. Fill tank with correct fuel mixture. 4. Install new spark plug. 5. Check for dirty fuel filter; replace. Check for kinked or split fuel line; repair or replace. 6. Contact an authorized service dealer.
Engine will not idle properly.	1. Carburetor requires adjustment. 2. Crankshaft seals worn. 3. Compression low.	1. See “Carburetor Adjustment” in Service and Adjustments Section. 2. Contact an authorized service dealer. 3. Contact an authorized service dealer.
Engine will not accelerate, lacks power, or dies under a load.	1. Air filter dirty. 2. Spark plug fouled. 3. Carburetor requires adjustment. 4. Carbon build-up on muffler outlet screen. 5. Compression low.	1. Clean or replace air filter. 2. Clean or replace plug and regap. 3. Contact an authorized service dealer. 4. Contact an authorized service dealer. 5. Contact an authorized service dealer.
Engine smokes excessively.	1. Choke partially on. 2. Fuel mixture incorrect. 3. Air filter dirty. 4. Carburetor requires adjustment.	1. Adjust choke. 2. Empty fuel tank and refill with correct fuel mixture. 3. Clean or replace air filter. 4. Contact an authorized service dealer.
Engine runs hot.	1. Fuel mixture incorrect. 2. Spark plug incorrect. 3. Carburetor requires adjustment. 4. Carbon build-up on muffler outlet screen.	1. Empty fuel tank and refill with correct fuel mixture. 2. Replace with correct spark plug. 3. Contact an authorized service dealer. 4. Contact an authorized service dealer.

DECLARATION OF CONFORMITY relating to 2000/14/EC

EC Declaration of Conformity relating to 2000/14/EC

We, **Electrolux Home Products, Inc.,** Texarkana, TX, 75501, USA, Tél. : +1 903 223 4100, declare under sole responsibility that the **McCulloch model TrimMac 280 grass trimmer** was assessed in accordance with Annex V of the DIRECTIVE and from serial numbers 2003-246N00001 and onwards, conforms to the provisions of the DIRECTIVE. The cutting width is 431 mm. The measured sound power is 108 dB and the guaranteed sound power is 118 dB.

Texarkana 03-09-03



Michael S. Bounds, Director
Product Safety and Standards

DECLARATION OF CONFORMITY relating to 98/37/EC

EC Declaration of Conformity (Directive 98/37/EC, Annex II, A) (Only applies to Europe)

We, **Electrolux Home Products, Inc.,** Texarkana, TX, 75501, USA, Tél. : +1 903 223 4100, Declare under sole responsibility that the **McCulloch model TrimMac 280** grass trimmer from serial numbers 2003-246N00001 and onwards, follows the provisions of the DIRECTIVES : **98/37/EC** (machinery) and **89/336/EEC** (electromagnetic compatibility)**,** including amendments and is in conformity with the following standards: **EN 292-2, EN ISO 11806** and **CISPR 12.**

SMP, The Swedish Machinery Testing Institute, Fyrisborgsgatan 3 S-754 50 Uppsala, Sweden, has carried out voluntary type approval. The certificate(s) are numbered: **SEC/04/1009**.

Texarkana 03-09-03

Michael S. Bounds, Director
Product Safety and Standards

TECHNICAL DATA SHEET

MODEL: TrimMac 280

ENGINE	
Displacement, cm^3	28
Maximum engine power, measured in accordance with ISO 8893, kW	0,7
ENGINE ROTATIONAL SPEEDS	
At maximum engine power, rpm	10000
Recommended maximum speed, rpm	8260
Recommended speed idling, rpm	3000
FUEL AND LUBRICATION SYSTEM	
Fuel tank volume capacity, cm^3	325
Fuel consumption at maximum engine power, measured in accordance with ISO 8893, g/h	399
Specified fuel consumption at max. engine power, measured in accordance with ISO 8893, g/kWh	435
WEIGHT	
Without cutting attachment or shield, empty tank, kg	5
CUTTING ATTACHMENT	
Cutting head assembly, part number	#530058831
NOISE LEVELS (Octave Band Analysis 100-10000hz 1/3 Octave)	
SOUND PRESSURE LEVELS in accordance with ISO/EN 11806 measured in accordance with EN 27917, dB(A)	95,6
SOUND POWER LEVELS in accordance with ISO/EN 11806 measured in accordance with ISO/EN 10884, dB(A)	105,7
VIBRATION LEVELS measured in accordance with ISO 7916	
FRONT HANDLE	
Idling, m/s^2	9,18
Racing, m/s^2	7,33
REAR HANDLE	
Idling, m/s^2	20,1
Racing, m/s^2	10,1

YEAR OF CONSTRUCTION: 2004

MANUFACTURER'S ADDRESS: EOPI Italy
Via Como 72
Valmadrera, Lecco
ITALY I-23868